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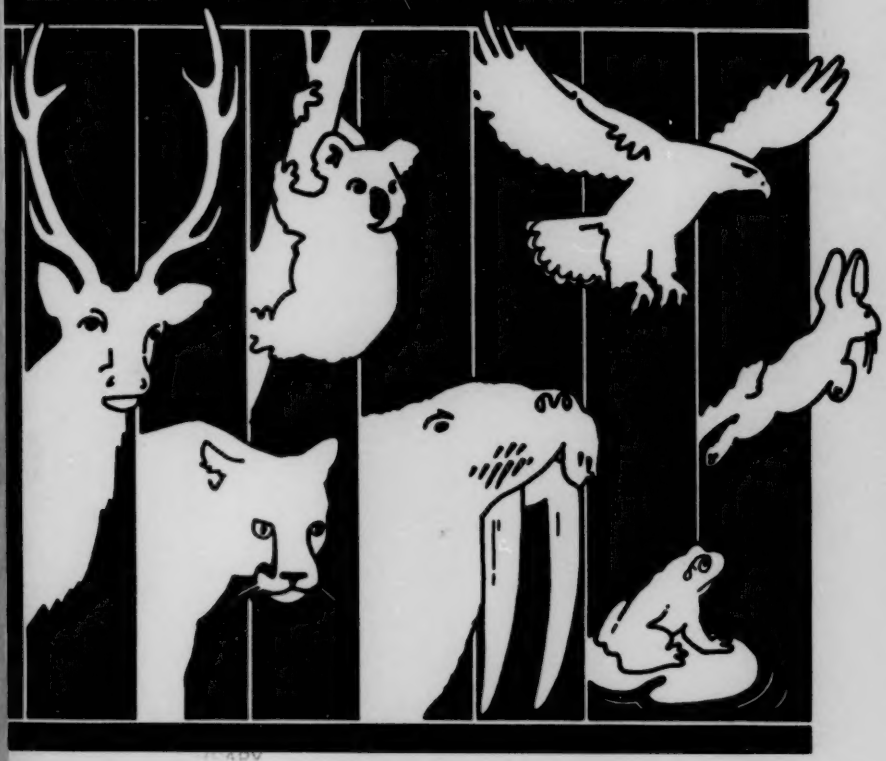

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NOTICE

It is with regret that we must announce that our attempt to launch Dr. R. E. Kirby's career as a wildlife illustrator has met with less than favorable results. This will be the last issue in which we can feature *Duck For Spine*. Our best wishes go with Dr. Kirby as he ventures to North Dakota in search of greater artistic inspiration.

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[Dep. For. & Resour. Manage., Univ. Calif., Berkeley 94720] *Odocoileus hemionus columbianus* in California.

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90-012182 Schmitz, Oswald J. MANAGEMENT IMPLICATIONS OF FORAGING THEORY: EVALUATING DEER SUPPLEMENTAL FEEDING. *J. Wildl. Manage.* 54(4):522-532. 1990. WR 221
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90-012184 Van Pelt, Nicholas S.; Richard Stevens and Neil E. West. SURVIVAL AND GROWTH OF IMMATURE *JUNIPERUS OSTEOSPERMA* AND *PINUS EDULIS* FOLLOWING WOODLAND CHAINING IN CENTRAL UTAH. *Southwest. Nat.* 35(3):322-328. 1990. WR 221
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90-012196 Fancy, Steven G.; Richard F. Farnell and Larry F. Pank. SOCIAL BONDS AMONG ADULT BARREN-GROUND CARIBOU. *J. Mammal.* 71(3):458-460. 1990. WR 221
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90-012197 Gniadek, Steven J. ELK AND CATTLE RELATIONSHIPS ON SUMMER RANGE IN SOUTHWESTERN MONTANA. *M.S. thesis, Univ. Mont.* 1987. WR 221
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[Poultry Dep., Cent. Vet. Lab., New Haw, Weybridge, Surrey KT15 3NB, England] *Alectoris rufa*, *Phasianus colchicus*, and *Perdix perdix*.

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[Dep. Fish & Wildl., 3814 Clark Blvd., Ontario, OR 97914] *Lophortyx californica* in Oregon.

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[Dep. Wildl. & Parks, Emporia, KS 66801-1525] *Perdix perdix*.

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[Miss. State Univ., Coll. Vet. Med., Drawer V, Mississippi State 39762] *Colinus virginianus*.

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RING-NECKED PHEASANT AND ALLIES

90-012657 Goodwin, Derek. NOTES ON THE COMMON PHEASANT. *Avic. Mag.* 96(1):41-50. 1990. WR 221
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Phasianus colchicus in Montana.

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[Fish & Wildl. Res. Cent., U.S. Fish & Wildl. Serv.,,1011 E. Tudor Rd., Anchorage, AK 99503] *Rissa tridactyla.*

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[Brush: Dep. Physiol. & Neurobiol., U-42, Univ. Conn., Storrs 06269] *Sterna elegans* in California.

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[Dep. Biol. Sci., Univ. Durham, Durham DH1 3LE, England] *Calidris alpina, Tringa totanus,* and *Charadrius hiaticula* in Scotland.

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[BTO, Beech Grove, Station Rd., Tring, Hertfordshire HP23 5NR, England] Data for 14 species.

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[2135 W. Cortez St. #1, Chicago, IL 60622]

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[Game Biol. Stn., Kalo, Grenavej 14, 8410 Ronde, Denmark]

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[Cent. Louis Emberger, C.N.R.S., B.P. 5051, 34033 Montpellier-Cedex, France] *Larus ridibundus* in France.

90-012938 Lenz, M. MULTIPLE BROOD FAMILY UNIT OF THE DUSKY MOORHEN IN CANBERRA. *Corella* 14(3):94-95. 1990. WR 221
[8 Suttor St., Ainslie, A.C.T. 2602, Australia] *Gallinula tenebrosa* in Australia.

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SHOREBIRDS, MARSHBIRDS, AND ALLIES (CONTINUED)

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90-012942 Machikunas, Algimantas. THE EFFECT OF HABITAT DESTRUCTION ON THE ABUNDANCE OF BREEDING WADERS. *Wader Study Group Bull.* No. 57. p. 16. 1989. Abstract only. WR 221
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90-012944 Maloney, Richard. A RUFF AT LAKE WAINONO. *Notornis* 35(4):328. 1988. WR 221
[Zool. Dep., Univ. Canterbury, Christchurch, New Zealand] *Philomachus pugnax* in New Zealand.

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90-012948 Marra, Peter P. and Milan G. Bull. DISPERSAL OF HERONS FROM CHIMON ISLAND. *Conn. Warbler* 6(4):44-47. 1986. WR 221
[Mus. Nat. Sci., La. State Univ., Baton Rogue 70803] *Nycticorax nycticorax*, *Egretta alba*, *E. thula*, and *Plegadis falcinellus* in Connecticut.

90-012949 Martin, A. P. and D. Baird. FEEDING PATTERNS OF AVIAN PREDATORS IN RESPONSE TO TIDAL AND SEASONAL CHANGES IN THE BEHAVIOUR OF THEIR MUDPRAWN PREY. *Wader Study Group Bull.* No. 57. p. 17. 1989. Abstract only. WR 221
[Dep. Zool., Univ. Port Elizabeth, P.O. Box 1600, Port Elizabeth, South Africa] *Pluvialis squatarola*, *Larus dominicanus*, *Numenius phaeopus*, and *N. arquata* in South Africa.

90-012950 Massias, Andrea and Peter H. Becker. NUTRITIVE VALUE OF FOOD AND GROWTH IN COMMON TERN *STERNA HIRUNDO* CHICKS. *Ornis Scand.* 21(3):187-194. 1990. WR 221
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[Inst. Mar. Biol., Univ. Oreg., Charleston 97420] *Cepphus columba* in Oregon.

90-012952 Meire, Patrick. EFFECTS OF TIDAL CHANGES AND HABITAT LOSS ON THE FORAGING BEHAVIOUR OF WADERS IN THE OOSTERSCHELDE, THE NETHERLANDS. *Wader Study Group Bull.* No. 57. p. 17-18. 1989. Abstract only. WR 221
[Rijksuniv. Gent, Lab. Ecol. Dieren, Zoogeogr. & Nat., Ledegenckstr. 35, 9000 Gent, Belgium] *Haematopus ostralegus.*

90-012953 Miller, S. L.; C. J. Ralph and B. O'Donnell. SURVEY OF MARBLED MURRELETS FROM SHORE IN NORTHWESTERN CALIFORNIA. *Pac. Seabird Group Bull.* 17(1):27. 1990. Abstract only. WR 221
[U.S. For. Serv. Redwood Sci. Lab., 1700 Bayview Dr., Arcata, CA 95521] *Brachyramphus marmoratus.*

90-012954 Milsom, T. P.; J. B. A. Rochard and S. J. Poole. ACTIVITY PATTERNS OF LAPWINGS *VANELLUS VANELLUS* IN RELATION TO THE LUNAR CYCLE. *Ornis Scand.* 21(2):147-156. 1990. WR 221
[Aviation Bird Unit, ADAS Cent. Sci. Lab., MAFF, Worplesdon, Guildford, Surrey GU3 3LQ, England]

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[Dep. Zool., Univ. Canterbury, Christchurch 1, New Zealand] *Coenocorypha aucklandica barrierensis* in New Zealand.

90-012956 Miskelly, Colin M. BREEDING SYSTEMS OF NEW ZEALAND SNIPE *COENOCORYPHA AUCKLANDICA* AND CHATHAM ISLAND SNIPE *C. PUSILLA*; ARE THEY FOOD LIMITED? *Ibis* 132(3):366-379. 1990. WR 221
[Dep. Zool., Univ. Canterbury, Private Bag, Christchurch, New Zealand]

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[U.S. Fish & Wildl. Serv., Monida Star Rt., Box 15, Lima, MT 59739] *Stercorarius parasiticus.*

90-012958 Morrison, Kim. CATTLE EGRETS IN FIORDLAND NATIONAL PARK 1973-1987. *Notornis* 34(4):315-316. 1987. WR 221
[Box 29, Te Anau, New Zealand] *Ardeola ibis coromandus* in New Zealand.

90-012959 Morrison, R. I. G. and R. K. Ross. WINTER DISTRIBUTION OF NEARCTIC SHOREBIRDS ON THE COAST OF SOUTH AMERICA. *Wader Study Group Bull.* No. 57. p. 25. 1989. Abstract only. WR 221
[Canadian Wildl. Serv., Natl. Wildl. Res. Cent., 100 Gamelin Blvd., Hull, PQ, Canada K1A 0H3]

90-012960 Mukhina, Ye. A. [*CHLAMYDOTIS UNDULATA MACQUEENII* IN THE BUKHARA GAZELLE NURSERY: SETTLEMENT PATTERN, POPULATION DYNAMICS, AND ECOLOGY.] *Zool. Zh.* 69(7):107-116. 1990. In Russian with English summ. WR 221

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[Dep. Biosci., Saurashtra Univ., Raijkot-360 005, Gujarat, India]

90-012962 Namassivayan, L. and R. Venugopalan. AVOCET *RECURVIROSTRA AVOSETTA* IN KERALA. *J. Bombay Nat. Hist. Soc.* 86(3):447. 1989. WR 221

90-012963 Namassivayan, L.; P. K. Uthaman and R. Venugopalan. FOUR ADDITIONS TO THE BIRDS OF KERALA. *J. Bombay Nat. Hist. Soc.* 86(3):458-459. 1989. WR 221
Sterna sandvicensis, Pluvialis squatarola, Calidris temminckil, C. alpina, Larus fuscus, Limosa lapponica, and *Haematopus ostralegus* in India.

90-012964 Naslund, N. L.; S. W. Singer and S. Singer. A PROPOSED GROUND SEARCH TECHNIQUE FOR FINDING TREE NESTS OF THE MARBLED MURRELET IN OPEN CANOPY FORESTS. *Pac. Seabird Group Bull.* 17(1):28. 1990. Abstract only. WR 221
[Inst. Mar. Sci., Univ. Calif., Santa Cruz 95064] *Brachyramphus marmoratus* in California.

90-012965 Naslund, N. L.; J. L. Schear and D. P. Costa. BEHAVIOR OF MARBLED MURRELETS AT TWO TREE NESTS IN CENTRAL CALIFORNIA. *Pac. Seabird Group Bull.* 17(1):27. 1990. Abstract only. WR 221
[Inst. Mar. Sci., Santa Cruz, CA 95064] *Brachyramphus marmoratus.*

90-012966 Nelson, S. K. DISTRIBUTION OF THE MARBLED MURRELET IN WESTERN OREGON. *Pac. Seabird Group Bull.* 17(1):28-29. 1990. Abstract only. WR 221
[Coop. Wildl. Res. Unit, Oreg. State Univ., Corvallis 97331] *Brachyramphus marmoratus.*

90-012967 Nicholls, Janice L. and Guy A. Baldassarre. WINTER DISTRIBUTION OF PIPING PLOVERS ALONG THE ATLANTIC AND GULF COASTS OF THE UNITED STATES. *Wilson Bull.* 102(3):400-412. 1990. WR 221
[U.S. Fish & Wildl. Serv., 75 Spring St., Atlanta, GA 30303] *Charadrius melodus.*

90-012968 Nichols, J. D.; J. A. Spendelow and J. E. Hines. CAPTURE-RECAPTURE ESTIMATION OF PREBREEDING SURVIVAL RATE FOR BIRDS EXHIBITING DELAYED MATURATION. *J. Field Ornithol.* 61(3):347-354. 1990. In English with Spanish summ. WR 221
[U.S. Fish. & Wildl. Serv., Patuxent Wildl. Res. Cent., Laurel, MD 20708] *Sterna dougallii* in Connecticut.

90-012969 Noble, D. G. BEHAVIOUR OF PROSPECTING THICK-BILLED MURRES: EFFECTS OF AGE AND CONDITION. *Pac. Seabird Group Bull.* 17(1):29. 1990. Abstract only. WR 221
[Dep. Biol., Queen's Univ., Kingston, ON, Canada K7L 3N6] *Uria lomvia* in Canada.

90-012970 O'Donnell, B. P.; C. J. Ralph and S. L. Miller. MARBLED MURRELET BEHAVIOR DURING THE BREEDING SEASON AT INLAND SITES IN NORTHWESTERN CALIFORNIA. *Pac. Seabird Group Bull.* 17(1):29. 1990. Abstract only.

SHOREBIRDS, MARSHBIRDS, AND ALLIES (CONTINUED)

90-012970 CONTINUED WR 221
[U.S. For. Serv. Redwood Sci. Lab., 1700 Bayview Dr., Arcata, CA 95521] *Brachyramphus marmoratus*.

90-012971 O'Donnell, Colin F. J. BLACK STILTS NESTING AT LAKE ELLESMERE. *Notornis* 35(3):247-248. 1988. WR 221
[Dep. Conserv., Private Bag, Christchurch, New Zealand] *Himantopus novaezelandiae* in New Zealand.

90-012972 Ogilvie, M. A. DISTRACTION DISPLAY OF RINGED PLOVER PERFORMED OVER WATER. *Br. Birds* 83(8):332. 1990. WR 221
[Glencairn, Bruichladich, Isle of Islay, Argyll PA49 7UN, Scotland] *Charadrius hiaticula* in Scotland.

90-012973 Olson, S. L. DENSITY AND DISTRIBUTION, NEST SITE SELECTION, AND ACTIVITY OF THE MOUNTAIN PLOVER ON THE CHARLES M. RUSSELL NATIONAL WILDLIFE REFUGE. *M.S. thesis, Univ. Mont.* 62p. 1984. WR 221
Charadrius montanus and *Cynomys ludovicianus* in Montana.

90-012974 Ornithologische Arbeitsgemeinschaft Munster. [WINTER OCCURRENCE OF GREEN SANDPIPERS (*TRINGA OCHROPUS*) IN THE SEWAGE FARMS OF MUNSTER.] *Vogelwelt* 110(4):130-142. 1989. In German with English summ. WR 221
[Coermuhle 181, D-4400 Munster, West Germany]

90-012975 Pal, S. G. and B. Bala. FEEDING BEHAVIOURS OF AN INDIAN EGRET *BUBULCUS IBIS*. *Wader Study Group Bull.* No. 57. p. 18. 1989. Abstract only. WR 221
[Dep. Zool., Univ. Calcutta, Calcutta-700 019, India]

90-012976 Paton, P. W. C. and C. J. Ralph. HABITAT USE PATTERNS OF MARBLED MURRELETS AT INLAND SITES IN CALIFORNIA. *Pac. Seabird Group Bull.* 17(1):30. 1990. Abstract only. WR 221
[U.S. For. Serv. Redwood Sci. Lab., 1700 Bayview Dr., Arcata, CA 95521] *Brachyramphus marmoratus*.

90-012977 Paton, P. W. C.; J. Seay and C. J. Ralph. NEW CAPTURE TECHNIQUES FOR MARBLED MURRELETS. *Pac. Seabird Group Bull.* 17(1):30. 1990. Abstract only. WR 221
[U.S. For. Serv. Redwood Sci. Lab., 1700 Bayview Dr., Arcata, CA 95521] *Brachyramphus marmoratus*.

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HUMMINGBIRDS, SWIFTS, AND ALLIES

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[British Ornithol. Union, British Mus. (Nat. Hist.), Tring, Herts HP23 6AP, England]

WOODPECKERS AND ALLIES

90-013213 Brigham, R. Mark; Michael J. Sarell and Christopher G. Harris. ROOSTING OF NORTHERN FLICKERS (*COLAPTES AURATUS*) UNDER A CONCRETE BRIDGE. *Northwest. Nat.* 71(2):52-53. 1990. WR 221
[Div. Ecol. (Behav. Ecol. Group), Dep. Biol. Sci., Univ. Calgary, Calgary, AB, Canada T2N 1N4]

90-013214 Carter, Joseph Henry III. POPULATION TRENDS AND REPRODUCTIVE SUCCESS OF THE RED-COCKADED WOODPECKER ON 3 STUDY AREAS IN THE NORTH CAROLINA SANDHILLS, 1980-1987. *Ph.D. dissertation, N.C. State Univ.* 106p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(4):1691. 1990. Order No. DA9023367. WR 221
Dendrocopos borealis.

90-013215 Copeyon, Carole K. A TECHNIQUE FOR CONSTRUCTING CAVITIES FOR THE RED-COCKADED WOODPECKER. *Wildl. Soc. Bull.* 18(3):303-311. 1990. WR 221
[Dep. Zool., Box 7617, N.C. State Univ., Raleigh 27695-7617] *Dendrocopos borealis* in North Carolina.

90-013216 Jamnicky, Julius. [NESTING OF *PICOIDES TRIDACTYLUS* (L.).] *Biologia (Bratisl.)* 45(6):519-520. 1990. In Czech. WR 221

90-013217 Reed, J. Michael. SOME ASPECTS OF VERTEBRATE CONSERVATION, WITH PARTICULAR ATTENTION TO THE RED-COCKADED WOODPECKER. *Ph.D. dissertation, N.C. State Univ.* 157p. 1989. From Diss. Abstr. Int. B Sci. Eng. 51(2):620-621. 1990. Order No. DA9017714. WR 221
Dendrocopos borealis.

90-013218 Ripley, S. Dillon. ON THE OCCURRENCE OF A PAIR OF RED-BELLIED WOODPECKERS IN NORTHWESTERN CONNECTICUT. *Conn. Warbler* 8(4):88-89. 1988. WR 221
[NHB Rm. 336, Smithsonian Inst., Washington, DC 20560] *Melanerpes carolinus.*

PASSERINE BIRDS--GENERAL

90-013219 Amundsen, Trond. DWARF EGG OF TITMOUSE *PARUS* SPP. LAID IN A PIED FLYCATCHER *FICEDULA HYPOLEUCA* NEST. *Fauna Norv. Ser. C* 13(1):47-48. 1990. In English with Norwegian summ. WR 221
[Dep. Biol., Div. Zool., Univ. Oslo, P.O. Box 1050, Blindern, N-0316 Oslo 3, Norway]

90-013220 Blattner, Martin and Carl Th. Speiser. [NESTBOX OCCUPATION BY SONG-BIRDS IN THE BASLE REGION: FLUCTUATIONS, LONG-TERM TRENDS, AND USEFULNESS.] *Ornithol. Beob.* 87(3):223-242. 1990. In German with English summ. WR 221
[Weinbergstr. 62, CH-4102 Binningen, Switzerland] *Sitta europaea, Parus major, P. caeruleus, Ficedula hypoleuca, Phoenicurus phoenicurus,* and *Passer montanus* in Switzerland.

PASSERINE BIRDS--GENERAL (CONTINUED)

90-013221 Block, William M. GEOGRAPHIC VARIATION IN FORAGING ECOLOGIES OF BREEDING AND NONBREEDING BIRDS IN OAK WOODLANDS. *Stud. Avian Biol.* No. 13. p. 264-269. 1990. WR 221
[Pac. Southwest For. & Range Exp. Stn., U.S. For. Serv., 2081 E. Sierra Ave., Fresno, CA 93710] *Parus inornatus, Sitta carolinensis, Myiarchus cinerascens, Sialia mexicana, Dendroica coronata,* and *Junco hyemalis* in California.

90-013222 Brown, R. J.; M. N. Brown and E. M. Russell. SURVIVAL OF FOUR SPECIES OF PASSERINE IN KARRI FORESTS IN SOUTHWESTERN AUSTRALIA. *Corella* 14(3):69-78. 1990. WR 221
[Russell: 53 Swan St., Guildford, W.A. 6055, Australia] *Pachycephala pectoralis, Sericornis frontalis, Eopsaltria georgiana,* and *Malurus elegans.*

90-013223 Coker, Dan R. and John L. Confer. BROWN-HEADED COWBIRD PARASITISM ON GOLDEN-WINGED AND BLUE-WINGED WARBLERS. *Wilson Bull.* 102(3):550-552. 1990. WR 221
[Dep. Biol., Ithaca Coll., Ithaca, NY 14850] *Vermivora chrysoptera V. pinus,* and *Molothrus ater.*

90-013224 Dean, Shelley. COMPOSITION AND SEASONALITY OF MIXED-SPECIES FLOCKS OF INSECTIVOROUS BIRDS. *Notornis* 37(1):27-36. 1990. WR 221
[16 Grimseys Rd., Papanui, Christchurch 5, New Zealand] *Finschia novaeseelandiae, Zosterops lateralis, Fringilla coelebs, Rhipidura fuliginosa, Gerygone igata,* and *Acanthis flammea* in New Zealand.

90-013225 Diaz, Mario. INTERSPECIFIC PATTERNS OF SEED SELECTION AMONG GRANIVOROUS PASSERINES: EFFECTS OF SEED SIZE, SEED NUTRITIVE VALUE AND BIRD MORPHOLOGY. *Ibis* 132(3):467-476. 1990. WR 221
[Dep. Biol. Anim. I. Catedra Vertebr., Fac. Biol., Univ. Complutense, 280-40 Madrid, Spain]

90-013226 Dmowski, Krzysztof and Michal Kozakiewicz. INFLUENCE OF A SHRUB CORRIDOR ON MOVEMENTS OF PASSERINE BIRDS TO A LAKE LITTORAL ZONE. *Landscape Ecol.* 4(2/3):99-108. 1990. WR 221
[Dep. Zool. & Ecol., Inst. Zool., Warsaw Univ., ul. Krakowskie Przedmiescie 26/28, 00-927 Warsaw, Poland]

90-013227 Finch, Deborah M. EFFECTS OF PREDATION AND COMPETITOR INTERFERENCE ON NESTING SUCCESS OF HOUSE WRENS AND TREE SWALLOWS. *Condor* 92(3):674-687. 1990. WR 221
[Rocky Mt. For. & Range Exp. Stn., 222 S. 22nd St., Laramie, WY 82070] *Troglodytes aedon* and *Tachycineta bicolor* in Wyoming.

90-013228 Ford, Hugh A.; Leonie Huddy and Harry Bell. SEASONAL CHANGES IN FORAGING BEHAVIOR OF THREE PASSERINES IN AUSTRALIAN EUCALYPTUS WOODLAND. *Stud. Avian Biol.* No. 13. p. 245-253. 1990. WR 221
[Dep. Zool., Univ. New England, Armidale, N.S.W. 2351, Australia] *Meliphaga fusca, Petroica multicolor,* and *Acanthiza reguloides.*

90-013229 Giraldeau, Luc-Alain; Jerry A. Hogan and Michael J. Clinchy. THE PAYOFFS TO PRODUCING AND SCROUNGING: WHAT HAPPENS WHEN PATCHES ARE DIVISIBLE? *Ethology* 85(2):132-146. 1990. WR 221

PASSERINE BIRDS--GENERAL (CONTINUED)

90-013229 CONTINUED
[Dep. Biol., Concordia Univ., 1455 ouest bd. de Maisonneuve, Montreal, PQ, Canada H3G 1M8] *Poephila guttata* and *Lonchura punctulata*.

90-013230 Hagvar, S.; O. J. Sorensen and E. Lund. NEST-BOX STUDIES ON HOLE-NESTING PASSERINES IN SPRUCE FOREST. I. EFFECT OF NEST HOLE AVAILABILITY ON POPULATION DENSITY. *Fauna Norv. Ser. C* 13(1):33-41. 1990. In English with Norwegian summ. WR 221
[Norwegin For. Res. Inst., Box 61, N-1432 As-NLH, Norway] Data for 21 species in Norway.

90-013231 Hejl, Sallie J.; Jared Verner and Graydon W. Bell. SEQUENTIAL VERSUS INITIAL OBSERVATIONS IN STUDIES OF AVIAN FORAGING. *Stud. Avian Biol.* No. 13. p. 166-173. 1990. WR 221
[U.S. For. Serv., Intermountain Res. Stn., P.O. Box 8089, Missoula, MT 59807] *Aphelocoma coerulescens, Parus inornatus, Psaltriparus minimus, Thryomanes bewickii,* and *Pipilo fuscus* in California.

90-013232 Kellner, Christopher J.; Kimberly G. Smith; Noma C. Wilkinson and Douglas A. James. INFLUENCE OF PERIODICAL CICADAS ON FORAGING BEHAVIOR OF INSECTIVOROUS BIRDS IN AN OZARK FOREST. *Stud. Avian Biol.* No. 13. p. 375-380. 1990. WR 221
[Dep. Biol., VPI&SU, Blacksburg, VA 24061-0406] *Parus bicolor, Vireo olivaceus, Empidonax virescens,* and *Polioptila caerulea* in Arkansas.

90-013233 Kulesza, George. AN ANALYSIS OF CLUTCH-SIZE IN NEW WORLD PASSERINE BIRDS. *Ibis* 132(3):407-422. 1990. WR 221
[Dep. Biol., Allegheny Coll., Meadville, PA 16335]

90-013234 Marti, Christian and Christine Breitenmoser-Wursten. [BREEDING BIOLOGY OF THE GREY WAGTAIL *MOTACILLA CINEREA* COMPARED TO THAT OF THE DIPPER *CINCLUS CINCLUS* IN THE SAANENLAND.] *Ornithol. Beob.* 87(1):13-29. 1990. In German with English summ. WR 221
[Hultschern 9, CH-6204 Sempach, Switzerland]

90-013235 McDonald, Lyman L.; Bryan F. J. Manly and Catherine M. Raley. ANALYZING FORAGING AND HABITAT USE THROUGH SELECTION FUNCTIONS. *Stud. Avian Biol.* No. 13. p. 325-331. 1990. WR 221
[Dep. Stat. & Zool., Univ. Wyo., Laramie 82071-3332] *Wilsonia pusilla* and *Tachycineta bicolor*.

90-013236 Miles, Donald B. THE IMPORTANCE AND CONSEQUENCES OF TEMPORAL VARIATION IN AVIAN FORAGING BEHAVIOR. *Stud. Avian Biol.* No. 13. p. 210-217. 1990. WR 221
[Dep. Zool. & Biomed. Sci., Ohio Univ., Athens 45701] *Auriparus flaviceps, Campylorhynchus brunneicapillus, Polioptila melanura, Parus wollweberi, Thryomanes bewickii,* and *Dendroica nigrescens* in Arizona.

90-013237 Petit, Daniel R.; Kenneth E. Petit and Lisa J. Petit. GEOGRAPHIC VARIATION IN FORAGING ECOLOGY OF NORTH AMERICAN INSECTIVOROUS BIRDS. *Stud. Avian Biol.* No. 13. p. 254-263. 1990. WR 221
[Dep. Zool., Univ. Arkansas, Fayetteville 72701] Data for 22 species.

90-013238 Shaw, Denice M. and Samuel F. Atkinson. AN INTRODUCTION TO THE USE OF GEOGRAPHIC INFORMATION SYSTEMS FOR ORNITHOLOGICAL RESEARCH. *Condor* 92(3):564-570. 1990. WR 221

PASSERINE BIRDS--GENERAL (CONTINUED)

90-013238 CONTINUED
[Inst. Appl. Sci., Dep. Biol. Sci., Univ. N. Tex., Denton 76203] *Dendroica chrysoparia* and *Vireo atricapillus*.

90-013239 Szaro, Robert C.; Jeffrey D. Brawn and Russell P. Balda. YEARLY VARIATION IN RESOURCE-USE BEHAVIOR BY PONSEROSA PINE FOREST BIRDS. *Stud. Avian Biol.* No. 13. p. 226-236. 1990. WR 221
[U.S. For. Serv., P.O. Box 96090, Attn: Rm. 610 RP-E, Washington, DC 20090-6090]

90-013240 Willson, Mary F.; Daniel A. Graff and Christopher J. Whelan. COLOR PREFERENCES OF FRUGIVOROUS BIRDS IN RELATION TO THE COLORS OF FLESHY FRUITS. *Condor* 92(3):545-555. 1990. WR 221
[For. Sci. Lab., P.O. Box 20909, Juneau, AK 99802-0909] *Dumetella carolinensis, Catharus ustulatus,* and *C. guttatus*.

90-013241 Young, Bruce E.; Michael Kaspari and Thomas E. Martin. SPECIES-SPECIFIC NEST SITE SELECTION BY BIRDS IN ANT-ACACIA TREES. *Biotropica* 22(3):310-315. 1990. In English with Spanish summ. WR 221
[Dep. Zool., NJ-15, Univ. Wash., Seattle 98195] *Campylorhynchus rufinucha, Icterus pustulatus, Tolmomyias sulphurescens,* and *Pitangus sulphuratus* in Costa Rica.

BLACKBIRDS, STARLINGS AND CROWS

90-013242 Alagar Rajan, S. and P. Balasubramanian. TOOL-USING BEHAVIOUR IN INDIAN HOUSE CROW *CORVUS SPLENDENS*. *J. Bombay Nat. Hist. Soc.* 86(3):450. 1989. WR 221

90-013243 Atwood, Jonathan L.; Mary Jo Elpers and Charles T. Collins. SURVIVAL OF BREEDERS IN SANTA CRUZ ISLAND AND MAINLAND CALIFORNIA SCRUB JAY POPULATIONS. *Condor* 92(3):783-788. 1990. WR 221
[Manomet Bird Observ., Box 936, Manomet, MA 02345] *Aphelocoma coerulescens insularis*.

90-013244 Choi, In-Ho and George S. Bakken. BEGGING RESPONSE IN NESTLING RED-WINGED BLACKBIRDS (*AGELAIUS PHOENICEUS*): EFFECT OF BODY TEMPERATURE. *Physiol. Zool.* 63(5):965-986. 1990. WR 221
[Dep. Biol., Leidy Lab., Univ. Pa., Philadelphia 19104]

90-013245 Dancey, Helen E. WESTERN MEADOWLARKS NEST IN INDIANA. *Indiana Audubon Q.* 68(3):118-126. 1990. WR 221
[314 Salem Ct., Valparaiso, IN 46383] *Sturnella neglecta*.

90-013246 Devine, Arnold and Dwight G. Smith. OCCURRENCE OF THE CHOUGH IN CONNECTICUT. *Conn. Warbler* 8(4):87. 1988. WR 221
[18 South St., Plymouth, CT 06782] *Pyrrhocorax pyrrhocorax*.

90-013247 Dhindsa, Manjit S. and David A. Boag. THE EFFECT OF FOOD SUPPLEMENTATION ON THE REPRODUCTIVE SUCCESS OF BLACK-BILLED MAGPIES *PICA PICA*. *Ibis* 132(4):595-602. 1990. WR 221
[Dep. Zool., Punjab Agric. Univ., Ludhiana, Punjab-141 004, India]

BLACKBIRDS, STARLINGS AND CROWS (CONTINUED)

90-013248 Dufty, Alfred M., Jr., and John C. Wingfield. ENDOCRINE RESPONSE OF CAPTIVE MALE BROWN-HEADED COWBIRDS TO INTRASEXUAL SOCIAL CUES. *Condor* 92(3):613-620. 1990. WR 221
[Dep. Biol., Boise State Univ., Boise, ID 83725] *Molothrus ater*.

90-013249 Eckerlin, Ralph P. THE PARASITE *CAPILLARIA CONTORTA* (NEMATODA: CAPILLARIIDAE) A SOURCE OF WINTER MORTALITY IN BLUE JAY POPULATIONS. *Va. J. Sci.* 41(2):53. 1990. Abstract only. WR 221
[Nat. Sci. Div., North. Va. Community Coll., Annandale 22003] *Cyanocitta cristata* in Connecticut.

90-013250 Eens, Marcel and Rianne Pinxten. EXTRA-PAIR COURTSHIP IN THE STARLING *STURNUS VULGARIS*. *Ibis* 132(4):618-619. 1990. WR 221
[Dep. Biol., Univ. Antwerp, Universitaitsplein 1, B-2610 Wilrijk, Belgium]

90-013251 Enstrom, David Arthur. INVESTIGATIONS OF DELAYED PLUMAGE MATURATION IN THE ORCHARD ORIOLE. *Ph.D. dissertation, Univ. Ill. (Urbana-Champaign)* 96p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(4):1612. 1990. Order No. DA9026176. WR 221
Icterus spurius in Panama.

90-013252 Flood, Nancy J. ASPECTS OF THE BREEDING BIOLOGY OF AUDUBON'S ORIOLE. *J. Field Ornithol.* 61(3):290-302. 1990. In English with Spanish summ. WR 221
[Dep. Zool., Univ. Toronto, 25 Harbord St., Toronto, ON, Canada M5S 1A1] *Icterus graduacauda* and *Molothrus aeneus* in Mexico.

90-013253 Fulton, John T. THE SHINY COWBIRD (*MOLOTHRUS BONARIENSIS*) REACHES ALABAMA. *Ala. Birdlife* 37(1):1-3. 1990. WR 221
[Savannah Natl. Wildl. Refuge, 4th Floor, Fed. Bldg., Wright Sq., Savannah, GA 31412]

90-013254 Goslow, G. E., Jr., and K. P. Dial. ACTIVE STRETCH-SHORTEN CONTRACTIONS OF THE M. PECTORALIS IN THE EUROPEAN STARLING (*STURNUS VULGARIS*): EVIDENCE FROM ELECTROMYOGRAPHY AND CONTRACTILE PROPERTIES. *Neth. J. Zool.* 40(1-2):106-114. 1990. WR 221
[Sect. Popul. Biol., Morphol. & Genet., Brown Univ.-Box G-BMC, Providence, RI 02912]

90-013255 Grahn, Mats. SEASONAL CHANGES IN RANGING BEHAVIOUR AND TERRITORIALITY IN THE EUROPEAN JAY *GARRULUS G. GLANDARIUS*. *Ornis Scand.* 21(3):195-201. 1990. WR 221
[Dep. Ecol., Anim. Ecol., Ecol. Bldg., S-223 62 Lund, Sweden]

90-013256 Ha, James Craig. THE EFFECTS OF TIME AND METABOLIC REQUIREMENTS ON FORAGING BEHAVIOR OF CAPTIVE GRAY JAYS. *Ph.D. dissertation, Colo. State Univ.* 117p. 1989. From Diss. Abstr. Int. B Sci. Eng. 51(2):619-620. 1990. Order No. DA9017415. WR 221
Perisoreus canadensis.

90-013257 Hutcheson, William H. and William Post. SHINY COWBIRD COLLECTED IN SOUTH CAROLINA: FIRST NORTH AMERICAN SPECIMEN. *Wilson Bull.* 102(3):561. 1990. WR 221
[56 Society St., Charleston, SC 29401] *Molothrus bonariensis* in South Carolina.

BLACKBIRDS, STARLINGS AND CROWS (CONTINUED)

90-013258 Jewell, S. D. WEIGHTS AND WING LENGTHS IN CONNECTICUT BLUE JAYS. *Conn. Warbler* 6(4):47-49. 1986. WR 221
[Natl. Audubon Soc., 115 Indian Mound Trail, Tavernier, FL 33070] *Cyanocitta cristata*.

90-013259 Kilham, Lawrence. FOOD STORAGE BY AMERICAN CROWS IN WINTER. *Conn. Warbler* 5(1):8-9. 1985. WR 221
[Lyme, NH 03768] *Corvus brachyrhynchos* in New Hampshire and Florida.

90-013260 Lanner, Ronald M. and Teijo Nikkanen. ESTABLISHMENT OF A *NUCIFRAGA-PINUS* MUTUALISM IN FINLAND. *Ornis Fenn.* 67(1):24-27. 1990. In English with Finnish summ. WR 221
[Dep. For. Resour., Utah State Univ., Logan 84322] *N. caryocatactes* in Finland.

90-013261 Mason, J. Russell and Thomas Turpin. CUCURBITACIN-ADULTERATED DIET IS AVOIDED BY CAPTIVE EUROPEAN STARLINGS. *J. Wildl. Manage.* 54(4):672-676. 1990. WR 221
[U.S. Dep. Agric., APHIS, c/o Monell Chem. Senses Cent., 3500 Market St., Philadelphia, PA 19104-3308] *Sturnus vulgaris*.

90-013262 McKean, Laurie M. DIFFERENCES IN THE FORAGING BEHAVIOR OF INDIVIDUAL GRAY-BREASTED JAY FLOCK MEMBERS. *Stud. Avian Biol.* No. 13. p. 284-287. 1990. WR 221
[Dep. Zool., Box 7617, N.C. State Univ., Raleigh 27695-7617] *Aphelocoma ultramarina* in Arizona.

90-013263 Meijer, Theo. INCUBATION DEVELOPMENT AND CLUTCH SIZE IN THE STARLING. *Ornis Scand.* 21(3):163-168. 1990. WR 221
[Max-Planck-Inst. Verhaltensphysiol., Vogelwarte, D-8138 Andechs, West Germany] *Sturnus vulgaris*.

90-013264 Munoz-Pulido, R.; L. M. Bautista; J. C. Alonso and J. A. Alonso. BREEDING SUCCESS OF AZURE-WINGED MAGPIES *CYANOPICA CYANA* IN CENTRAL SPAIN. *Bird Study* 37(2):111-114. 1990. WR 221
[Dep. Biol. Anim., Fac. Biol., Univ. Complutense, 28040 Madrid, Spain]

90-013265 Naranjo, Luis German. TERRITORY QUALITY, MALE BEHAVIOR, AND THE POLYGYNY THRESHOLD IN THE YELLOW-HOODED BLACKBIRD. *Ph.D. dissertation, N.M. State Univ.* 144p. 1989. From Diss. Abstr. Int. B Sci. Eng. 51(2):620. 1990. Order No. DA9019128. WR 221
Agelaius icterocephalus in Colombia.

90-013266 Olson, John. PHYSIOLOGICAL AND BIOCHEMICAL ASPECTS OF THE DEVELOPMENT OF ENDOTHERMY IN AN ALTRICIAL BIRD, THE RED-WINGED BLACKBIRD. *Ph.D. dissertation, Univ. Mich.* 193p. 1990. From Diss. Abstr. Int. B Sci. Eng. 51(4):1682. 1990. Order No. DA9023610. WR 221
Agelaius phoeniceus.

90-013267 Roberts, Craig. MORE ON THE NORTHWESTERN CROW IN OREGON. *Oreg. Birds* 16(3):223-224. 1990. WR 221
[2880 Old Netarts Rd. W., Tillamook, OR 97141] *Corvus caurinus*.

BLACKBIRDS, STARLINGS AND CROWS (CONTINUED)

90-013268 Saino, N. and A. Meriggi. HABITAT OCCUPANCY AND BREEDING DENSITIES OF COEXISTING HOODED CROWS AND MAGPIES: A MULTIVARIATE APPROACH. *Ethol. Ecol. Evol.* 2(2):205-214. 1990. WR 221
[Dip. Biol., Sezione Zool. & Sci. Nat., Univ. Milan, Via Celoria 26, 20133 Milan, Italy] *Corvus corone cornix* and *Pica pica* in Italy.

90-013269 Seibels, Robert E. AN UPDATE ON THE CAPTIVE AND WILD STATUS OF THE BALI MYNAH. *AAZPA (Am. Assoc. Zool. Parks Aquariums) Reg. Conf. Proc.* p. 367-372. 1990. WR 221
Leucopsar rothschildi.

90-013270 Sulter, Dorothy. OCCURRENCE OF OXPECKERS IN THE EASTERN CAPE. *Naturalist (S. Afr.)* 34(2):33-34. 1990. WR 221
[Albany Mus., Somerset St., Grahamstown 6140, South Africa] *Buphagus erythrorhynchus* in South Africa.

90-013271 Timmerman, Arend. [*CORVUS CORAX*, A BREEDING BIRD IN EAST GERMANY.] *Falke* 37(7):224-228. 1990. In German. WR 221
[Clarendallaan 2, 3841 DG Harderwijk, Netherlands]

90-013272 Tunhikorn, Schwann. RESOURCE PARTITIONING OF FOUR SYMPATRIC MYNAS AND STARLINGS (STURNIDAE) IN THAILAND. *Ph.D. dissertation, Oreg. State Univ.* 86p. 1989. From Diss. Abstr. Int. B Sci. Eng. 51(4):1577. 1990. Order No. DA9019859. WR 221
Sturnus nigricollis, S. contra, Acridotheres tristis, and *A. grandis*.

90-013273 Verbeek, Nicolaas A. M. DIFFERENTIAL PREDATION ON EGGS IN CLUTCHES OF NORTHWESTERN CROWS: THE IMPORTANCE OF EGG COLOR. *Condor* 92(3):695-701. 1990. WR 221
[Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC, Canada V5A 1S6] *Corvus caurinus* in Canada.

90-013274 Vogel, Christoph. [BREEDING DISTRIBUTION AND NUMBERS OF THE JACKDAW *CORVUS MONEDULA* IN SWITZERLAND IN 1989.] *Ornithol. Beob.* 87(3):185-208. 1990. In German with French summ. WR 221
[Zool. Inst., Univ. Bern, Baltzerstr. 3, CH-3012 Bern, Switzerland]

90-013275 Waite, Thomas A. EFFECTS OF CACHING SUPPLEMENTAL FOOD ON INDUCED FEATHER REGENERATION IN WINTERING GRAY JAYS *PERISOREUS CANADENSIS*: A PTILOCHRONOLOGY STUDY. *Ornis Scand.* 21(2):122-128. 1990. WR 221
[Dep. Zool., Ohio State Univ., 1735 Neil Ave., Columbus 43210]

90-013276 Williams, Pamela L. USE OF RADIOTRACKING TO STUDY FORAGING IN SMALL TERRESTRIAL BIRDS. *Stud. Avian Biol.* No. 13. p. 181-186. 1990. WR 221
[Mus. Vertebr. Zool., Univ. Calif., Berkeley 94720] *Icterus galbula bullockii* in California.

OTHER PASSERINE BIRDS

90-013277 Akeret, Ernst. [RECORDS OF THE SHORT-TOED LARK *CALANDRELLA BRACHYDACTYLA* IN SWITZERLAND.] *Ornithol. Beob.* 87(3):258-260. 1990. In German. WR 221
[Friedhofstr. 45, CH-4127 Birsfelden, Switzerland]

OTHER PASSERINE BIRDS (CONTINUED)

90-013278 Atkinson, Christopher A. EASTERN BLUEBIRD NESTING SUCCESS IN PARKWAY SYSTEMS OF LARGE MUNICIPALITIES. *Pa. Birds* 4(2):45-46. 1990. WR 221
[525 N. 21st St., Allentown, PA 18104] *Sialia sialis* in Pennsylvania.

90-013279 Baird, Kathryn J. and John P. Rieger. A RESTORATION DESIGN FOR LEAST BELL'S VIREO HABITAT IN SAN DIEGO COUNTY. *U.S. For. Serv. Gen. Tech. Rep. PSW* 110:462-467. 1989. WR 221
[Dep. Ecol., San Diego State Univ., San Diego, CA] *Vireo bellii pusillus* in California.

90-013280 Baker, Allan J.; Michael D. Dennison; Alejandro Lynch and Gerald Le Grand. GENETIC DIVERGENCE IN PERIPHERALLY ISOLATED POPULATIONS OF CHAFFINCHES IN THE ATLANTIC ISLANDS. *Evolution* 44(4):981-999. 1990. WR 221
[Dep. Ornithol., Royal Ontario Mus., Toronto, ON, Canada M5S 2C6] *Fringilla coelebs*.

90-013281 Baker, Myron Charles and Ann Eileen Miller Baker. REPRODUCTIVE BEHAVIOR OF FEMALE BUNTINGS: ISOLATING MECHANISMS IN A HYBRIDIZING PAIR OF SPECIES. *Evolution* 44(2):332-338. 1990. WR 221
[Dep. Biol., Colo. State Univ., Fort Collins 80523] *Passerina cyanea* and *P. amoena*.

90-013282 Barlow, Peter. HOUSE SPARROWS 'PLAYING' WITH PLASTIC TAG. *Br. Birds* 83(8):333. 1990. WR 221
[48 Grasmere Crescent, Eccles, Manchester M30 8DW, England] *Passer domesticus* in England.

90-013283 Bartle, J. A. and P. M. Sagar. INTRASPECIFIC VARIATION IN THE NEW ZEALAND BELLBIRD *ANTHORNIS MELANURA*. *Notornis* 34(4):253-306. 1987. WR 221
[Natl. Mus., Private Bag, Wellington, New Zealand] *A. m. oneho*.

90-013284 Beal, Kathleen G. and Harry J. Khamis. STATISTICAL ANALYSIS OF AN ORNITHOLOGICAL DATA SET: INTEPRETATION OF CORRELATED TESTS. *Ohio J. Sci.* 90(2):3. 1990. Abstract only. WR 221
[Math. & Stat., Wright State Univ., Dayton, OH 45435] *Turdus migratorius*.

90-013285 Bell, Harry L. and Hugh A. Ford. THE INFLUENCE OF FOOD SHORTAGE ON INTERSPECIFIC NICHE OVERLAP AND FORAGING BEHAVIOR OF THREE SPECIES OF AUSTRALIAN WARBLERS (ACANTHIZIDAE). *Stud. Avian Biol.* No. 13. p. 381-388. 1990. WR 221
[Dep. Zool., Univ. New England, Armidale, N.S.W. 2351, Australia] *Acanthiza pusilla, A. lineata,* and *A. reguloides*.

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[Dep. Biol. Sci., Clemson Univ., Clemson, SC 29634] *C. mexicanus* and *C. purpureus*.

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BOOK REVIEW

Ridgely, R.S. and G. Tudor. 1989. *The Birds of South America. Volume I. The Oscine Passerines.* University of Texas Press, P.O. Box 7819, Austin, TX 78713. xvi + 516 pp., 31 color plates. Available from the publisher $65.00 (cloth).

This magnificent authoritative volume is the first of four that will treat the birds of South America. The only previous treatment of South America's birds was that of Meyer de Schauensee published in 1970. That work was based on knowledge gained almost solely from the examination of museum specimens and lacked illustrations. The present series includes biological, ecological, and behavioral information gathered in the past 20 years and is illustrated by 31 plates that more than adequately depict about 450 of the 700 oscine passerines included in volume I. Guy Tudor's skillful illustrations were carefully researched and reflect natural postures and living soft part colors.

The text includes thorough discussions of the habitats and biogeography (including areas of endemism) of South American birds. A section on conservation lists species that have become rare or seem in danger of extinction. The series' production has been supported by the World Wildlife Fund and several other conservation groups in the hopes that dissemination of knowledge about South America's birdlife will increase the chances of its conservation—a not unreal expectation.

The species treatments are accompanied by distribution maps based on knowledge compiled through 1987. The treatments are in standard field guide outline, and seem thorough. Although not all species are illustrated, the fact that a member of every genus and species group was illustrated, together with the more than adequate descriptions and range maps in the text, should allow the identification of almost every species observed. The illustration of females, in addition to males, should also be a boon.

The next volume, which will treat the suboscine passerines, is in preparation and should be eagerly awaited.

The book is geared to the advanced birdwatcher and ornithologist and should be a tremendous adjunct to the efforts of those interested in conserving South American ecosystems. It is also to be hoped that a Spanish translation, and possibly one in Portugese, may be made available for use by Latin American biologists.—Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Ft. Collins, CO 80525.

Abadi, M.
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BOOK REVIEW

Smith L. M. , R. L. Pederson, and R. M. Kaminski, editors. 1989. *Habitat Management for Migrating and Wintering Waterfowl in North America.* Texas Tech University Press, Lubbock, TX 79409-1037. 560 pp. Available from the publisher at $25.00 (cloth).

This multi-authored volume consists of 20 chapters addressing major habitat types in the 4 North American Waterfowl Flyways and a final chapter discussing biopolitical strategies appropriate for addressing waterfowl habitat needs. The geographic areas reviewed cover the majority of the habitats used by large numbers of nonbreeding waterfowl within the conterminous United States, near border regions of Canada, and east and west coastal Mexico. Each chapter reviews the overall geomorphology and floral attributes, climate, and general wetland features of the area of concern; the major migration and wintering areas for waterfowl; historical and recent changes in this habitat and current risks for further modification; management practices currently in use and proposed best management prescriptions; and both research and management needs. Literature references are liberally used in each chapter such that the texts are indeed comprehensive reviews of both published and unpublished literature. Of greatest value are the synthesis aspects of each chapter, many of which provide either new interpretations or original proposals for management action.

Discussion in each chapter first addresses the habitat per se (e.g., "Tidal and Nontidal Wetlands of the Northern Atlantic States," "Mississippi Alluvial Valley," "High Plains Reservoirs and Sloughs," "The Pacific Coast of Mexico," etc.). Waterfowl abundance and distribution, often presented through species accounts, places the habitat and the birds in a common perspective. Each identifiable habitat "type" within the area of concern is reviewed with regard to habitat attributes and waterfowl behavioral and nutritional needs while using the habitat during the nonbreeding period. Limiting factors such as agricultural practices, drainage, ice, disease, and predation are also discussed so that a complete picture of waterfowl use of the geographic area can be developed. As a result of this thorough review, the management critiques provided for current practices, the proposals for more appropriate and efficient future habitat management to benefit particular species, and practices proposed to maintain or augment habitat are each particularly relevant. Most management suggestions are also cross-referenced to physiological needs of the birds, thus providing the background review necessary for comprehensive planning for continental nonbreeding waterfowl populations.

This is the first volume to focus intensively and exclusively on waterfowl during the entire nonbreeding period with an emphasis on habitat. Thus, it is a unique contribution to the rapidly expanding literature on waterfowl and wetlands management, and will be of value to both waterfowl and wetlands researchers and managers throughout North America. Each chapter was written by acknowledged experts and each was subjected to substantial peer review. Thus, both the relatively naive biologist looking for an initial entry to this complicated, far-flung, and often obscure literature, and an experienced biologist wishing an overview synthesis will find this volume of great practical use. It belongs on the bookshelf of everyone managing waterfowl during the nonbreeding period.—Ronald E. Kirby, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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BOOK REVIEW

Drake, J. A., H. A. Mooney, F. di Castri, R. H. Groves, F. J. Kruger, M. Rejmánek, and M. Williamson, editors. 1989. *Biological Invasions: A Global Perspective.* John Wiley and Sons, 1 Somerset Drive, Somerset, NJ 08775-1272. 525 pp. Available from the publisher at $146.00 (cloth).

This volume is the result of activity that began in 1982 and proceeded through a number of national workshops summarizing regional knowledge and international workgroups addressing special problems. This multi-authored text is the result of the culminating workshop, held in Honolulu, Hawaii. The chapters represent extensions and refinements of earlier treatments in the program, but reflect an expansion to cross-continental concerns and an attempt to provide synthesis of a broad range of original data. Additional chapters, not addressed in earlier work, have been added to complete global coverage. An overview chapter is presented, as is a list of publications emanating from the program and an index. Each of the 22 chapters is replete with literature citations and each serves as a very complete literature review in the area of interest.

The chapters first address the history of invasions (with special emphasis on the Old World) and then review what is known of invasions by terrestrial plants, insects, plant pathogens, vertebrates, and aquatic plants. Ecosystems are next considered, with temperate grasslands, Mediterranean-climate regions, nature reserves, and islands selected for review. Following, the consequences to ecosystems of biological invasions are reviewed, and the attributes of invaders in terrestrial and aquatic plant communities and vertebrate populations are explored. Two chapters address models of invasions and theories of predicting success and impact of introduced species; a third addresses the invasibility of plant communities. The nature and effects of disturbance relative to invasions and the aspects of chance and timing in invasions of plant and animal communities are explored in additional chapters. Analysis of risk is reviewed, as are means for control of invasions and the ecological effects of programs to control invading species. The final chapter provides and overview of the preceding chapters, draws together common themes, outlines research and other needs, and postulates appropriate courses of action.

Current concern with maintenance of viable population numbers, proper design of nature preserves, allowable economic and other uses of wild populations and habitats, and the proper role of man in managing stressed plant and animal communities make this volume of great interest to a wide variety of researchers and managers. Since the best-laid plans of a land manager can be undone within a decade by species that enter the system and remain uncontrolled by competitors, predation, or disease, anyone involved in maintenance of species diversity will find the volume very instructive. Similarly, those concerned with control processes necessary to remove or reduce the impact of invading species will find the case studies and world-wide review a must for development of effective survey and remediation activities. Finally, anyone studying or managing "natural" systems will need to review this text to properly understand the risks involved in adding species to both relatively pristine and already modified systems. The price of this volume is daunting, but it is perhaps the best compendium since Elton's (1958) classic work, *The Ecology of Invasions by Animals and Plants.*—Ronald E. Kirby, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

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BOOK REVIEW

Sealander, John A., and Gary A. Heidt. 1990. *Arkansas Mammals*. The University of Arkansas Press, 201 Ozark, Fayetteville, AR 72701. xiv + 308 pp. Available from the publisher at $50.00 (cloth) or $30.00 (paper).

This volume is an updated version of *A Guide to Arkansas Mammals* by John A. Sealander, which was published in 1079. Since that date, there have been some changes in nomenclature and, as can be seen by comparing distribution maps from the two editions, many new locality records of mammals in Arkansas. The book is written at a level that can be used by high school and college students; even so it contains enough substance to be useful to the professional wildlife biologist or zoologist having an interest in Arkansas mammals.

Arkansas Mammals retains the introductory material on paleoclimate as well as physical and biotic features of the state as background for understanding the present distribution of mammals. Brief chapters address topics such as mammal characteristics, geographic affinities, prehistory, chronology, extirpated species, and threatened and endangered species. Once again, the book is profusely illustrated with color photographs—most of improved quality although some of the photographs of bats appear a bit odd because seemingly vertical pictures are printed horizontally.

Species accounts are improved in that the prose is more readable with more extensive information. Illustrations are interspersed through the text with the appropriate accounts, and a drawing of the skull for each species has been included. There is a key to orders of mammals for the skull and the whole animal. Additional keys are interspersed amidst the species accounts, such as keys to bats, lagomorphs, squirrels.

This edition once again includes a glossary of terms, illustrations of select mammal tracks, and an extensive bibliography. *Arkansas Mammals* is a fitting tribute to John Sealander and Gary Heidt's efforts at studying the mammals of that state.—Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524

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BOOK REVIEW

Bohlen, H. David. 1989. *The Birds of Illinois.* Indiana University Press, 10th & Morton Streets, Bloomington, IN 47405. xvii + 221 pp, 49 color pls. Available from the publisher $57.50 (cloth).

This is another magnificently produced book in the tradition of *Birds of Indiana* by Littlejohn. William Zimmerman, one of best bird painters, has executed the marvelous full-color paintings of selected Illinois birds that accompany the text as full-page illustrations.

The author's text is perhaps more complete than is that of Littlejohn in *Birds of Indiana* in that there is more quantification of migration dates and descriptions of nests are included for many species. Most of the text is devoted to a concise review of each species' status in Illinois. Specific dates and references are given for specimens and notable observations. Notably lacking are distribution maps for each species. This reviewer feels that with our present state of knowledge and availability of data bases on the State's biota available through the Illinois Natural History Survey that this is a serious omission. One also wonders about the utility of a book that illustrates only selected species from a state's rich avifauna.

Biologists interested in Illinois's birds and persons who wish a copy of the book for its stunning artwork will want to obtain a copy of this folio-sized volume.—Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Ft. Collins, CO 80524.

BOOK REVIEW

Peterjohn, Bruce G. 1989. *The Birds of Ohio.* Indiana University Press, 10th & Morton Streets, Bloomington, IN 47405. xviii + 238 pp., 49 color pls. Available from the publisher $57.50 (cloth).

This book is a magnificently produced tome with magnificent plates executed by William Zimmerman. If can probably be classed as a coffee table book, because the text is disappointing. For each species recorded in Ohio the author describes the species discovery in the state, as well as its breeding, wintering, and migratory status. Dates of observation are included. Notably lacking are detailed maps of at least the county-by-county breeding and wintering range of each species, descriptions of nests, or of the plumages. A thorough bibliography includes all of the literature that documents observations or specimens of Ohio birds. To emphasize that this is not intended as an identification guide, no descriptions of birds are given and only selected species are illustrated.

Any biologist who regularly deals with Ohio's avifauna, or anyone who collects coffee table books with beautiful artwork will want a copy of this work on their shelf (or coffee table).—Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Ft. Collins, CO 80524.

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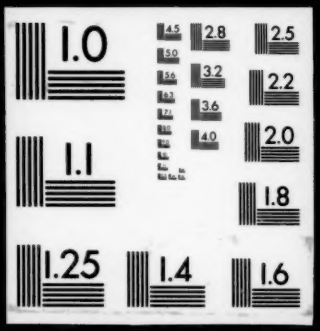
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